

**Product: Evopure Cal Chlor 70 Pool Chlorine** 

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Poisons Information Centre: 131 126 in Australia, 0800 764 766 in New Zealand

# Section 1 – Identification of the Material and Supplier

**Product Name: Evopure Cal Chlor 70 Pool Chlorine** 

Calcium Hypochlorite **Chemical Nature: Product Use:** Swimming Pool Sanitiser **Creation Date:** 1/11/2018

This version issued: 1/01/2023 and is valid for 5 years from this date.

#### **Details of Manufacturer:**

Evolution Water & Lighting Solutions Ptv Ltd 1/33 Hinkler Drive, Highland Park QLD 4211

Phone: +61 7 5565 0000

Email: enquiries@evolutionwls.com.au

**Emergency Telephone Number: 000** 

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#### Section 2 – Hazards Identification

#### **Statement of Hazardous Nature**

This product is classified as: Xn, Harmful. C, Corrosive. Hazardous according to the criteria of SWA. Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

**SUSMP Classification:** 

**ADG Classification:** Class 5.1: Oxidising substances.

**UN Number:** 2880, CALCIUM HYPOCHLORITE, HYDRATED

## **GHS Signal word: DANGER HAZARD STATEMENT:**

H272: May intensify fire; oxidizer.

AUH031: Contact with acids liberates toxic gas.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

R402: Harmful to aquatic life.

#### **PREVENTION**

P221: Take any precaution to avoid mixing with combustible or flammable materials.

P232: Protect from moisture.

P233: Keep container tightly closed.

P260: Do not breathe dusts.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well ventilated area.

P281: Use personal protective equipment as required.

## **RESPONSE**

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: If exposed or concerned: Get medical advice.

P391: Collect spillage.





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P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Coarse water spray is the preferred medium for large fires.

#### **STORAGE**

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

#### **DISPOSAL**

P501: If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

# Section 3 - Composition/Information on Ingredients

### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Calcium hypochlorite	CaCl <sub>2</sub> O <sub>2</sub>	7778-54-3	>90
Other non hazardous ingredients			to 100

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

#### Section 4 - First Aid Measures

**General Information:** You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 131 126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Quickly and gently brush away excess particles. Seek immediate medical attention. Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Flush contaminated area with lukewarm, gently flowing water for at least 20-30 minutes, by the clock. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this MSDS and take their advice). If irritation persists, repeat flushing. Seek medical attention.

**Eye Contact:** Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20-30 minutes, by the clock, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this MSDS and take their advice). Take care not to rinse contaminated water into the unaffected eye or onto face. If irritation persists, repeat flushing. Call a Poisons Information Centre or a doctor urgently. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

## Section 5 – Fire Fighting Measures

**Fire and Explosion Hazards**: There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. The presence of this product in a fire is likely to intensify the fire due to its oxidising properties.

This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product are likely to be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam or water fog. Coarse water spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is liquid-tight chemical protective clothing and breathing apparatus.





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Flash point: Does not burn.

**Upper Flammability Limit:** Does not burn. **Lower Flammability Limit:** Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

#### Section 6 - Accidental Release Measures

**Accidental release:** This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

# Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in a cool, well ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination, especially from combustible or reducing materials. Make sure that the product does not come into contact with or substances listed under "Incompatibilities" in Section 10. If you keep more than 50kg of Dry Pool Chlorine, you are probably required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

### **Section 8 – Exposure Controls and Personal Protection**

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

Exposure limits have not been established by SWA for any of the known significant ingredients in this product. No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

**Eye Protection:** Your eyes must be completely protected from this product by splash resistant goggles with face shield. All surrounding skin areas must be covered. Emergency eye wash facilities must also be available in an area close to where this product is being used.

**Skin Protection:** Because of the dangerous nature of this product, make sure that all skin areas are completely covered by impermeable gloves, overalls, hair covering, apron and face shield. See below for suitable material types.

**Protective Material Types:** There is no data that enables us to recommend any type except that it should be impermeable, rubber, PVC or nitrile.

**Respirator:** If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask. Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.





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# **Section 9 – Physical and Chemical Properties**

Physical Description & colour: White to cream coloured dry, free flowing powder

**Odour:** Sharp chlorine-like bleach odour.

**Boiling Point:** Not applicable.

Freezing/Melting Point: Decomposes at 175°C Volatiles: Water component.

**Vapour Pressure:** 2.37 kPa at 20°C (water vapour pressure).

Vapour Density:
Specific Gravity:
2.35
Water Solubility:
Soluble
PH:
No data.
Volatility:
No data.

**Odour Threshold:** 1-3ppm (for chlorine gas)

**Evaporation Rate:** No data.

**Autoignition temp:** Not applicable - does not burn.

# Section 10 – Stability and Reactivity

**Reactivity:** Calcium hypochlorite gradually decomposes to produce chlorine gas, which is harmful if inhaled. Check the Safety Directions on the product label for further details of incompatibilities.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition. combustible materials.

**Incompatibilities:** Acids, strong reducing agents, combustible materials.

**Fire Decomposition:** This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form hydrogen chloride gas, other compounds of chlorine. Calcium compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

# Section 11 - Toxicological Information

#### **Potential Health Effects:**

### Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful. Product may be irritating to mucous membranes and respiratory tract.

Long Term Exposure: Long term inhalation of high amounts of any nuisance dust may overload lung clearance mechanism. No data for health effects associated with long term inhalation.

# **Skin Contact:**

Short Term Exposure: Product is corrosive to the skin. Capable of causing moderate to severe burns with ulceration. Can penetrate to deeper layers of skin, resulting in third degree burns. Corrosion will continue until product is removed or neutralised. Severity depends on concentration and duration of exposure. Burns may not be immediately painful; the onset of pain may be minutes to hours.

Long Term Exposure: No data for health effects associated with long term skin exposure.

#### **Eve Contact:**

Short Term Exposure: Corrosive to eyes. This product will cause severe pain, and corrosion of the eye and surrounding facial tissues. Unless exposure is quickly treated, permanent blindness and facial scarring is likely. Long Term Exposure: No data for health effects associated with long term eye exposure.





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### Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. This product is unlikely to cause any irritation problems in the short or long term.

Long Term Exposure: No data for health effects associated with long term ingestion.

#### **Carcinogen Status:**

SWA: No significant ingredient is classified as carcinogenic by SWA. NTP: No significant ingredient is classified as carcinogenic by NTP. IARC: No significant ingredient is classified as carcinogenic by IARC.

**Target Organs:** There is no data to hand indicating any particular target organs.

# Section 12 - Ecological Information

Salts, acids and bases are typically diluted and neutralised when released to the environment in small quantities. However, until diluted or neutralised it will kill all aquatic organisms it contacts.

# Section 13 - Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration**: Consult your state Land Waste Management Authority for more information.

# **Section 14 – Transport Information**

ADG Code: 2880, CALCIUM HYPOCHLORITE, HYDRATED

Hazchem Code: 1W

Special Provisions: 313, 314

Limited quantities: ADG 7 specifies a Limited Quantity value of 1 kg for this class of product.

Dangerous Goods Class: Class 5.1: Oxidising Agents.

Packaging Group: Ⅱ

Packaging Method: P002, IBC08

Class 5.1 Oxidising Agents shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 2.1 (Flammable Gases), 2.3 (Toxic Gases), 3 (Flammable Liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.2 (Organic Peroxides), 6 (Toxic Substances, where the Toxic Substance is a fire risk substance), 7 (Radioactive Substances), 8 (Corrosive Substances), 9 (Miscellaneous Dangerous Goods, where the substance is a fire risk substance), Fire risk substances other than Dangerous Goods. They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.2 (Non-Flammable, Non-Toxic Gases), 6 (Toxic Substances except where the substances are fire risk substances), 9 (Miscellaneous Dangerous Goods except where the goods are fire risk substances) Foodstuffs and foodstuff empties.

# Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Calcium hypochlorite, is mentioned in the SUSMP.





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## Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

### **Acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

SDS: Safety Data Sheet SWA: Safe Work Australia

CAS Number: Chemical Abstracts Service Registry Number

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons

AICS: Australian Inventory of Chemical Substances

#### **Disclaimer:**

This Safety Data Sheet (SDS) is prepared in accord with the Safe Work Australia document "Preparation of Safety Data Sheets for Hazardous Chemicals, Code of Practice, February 2016".

The information contained in this SDS is provided in good faith and is believed to be accurate at the date of issuance. Evolution Water and Lighting Solutions Pty Ltd make no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or consequential damages related to the supply or use of the information in this SDS. Evolution Water and Lighting Solutions Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.

